

## CLAIMS

I claim:

1. A water heater comprising:

a case consisted of one front case and one back plate and contains fittings inside; a exhaust hood installed inside the case and near the coping with one vent on the top; a heat exchange module and a main heat valve installed under the exhaust hood, and the inlet head and the outlet head are installed on the two sides at the end of the hot water pipes respectively. Holes are punched on the case and the plate correspondingly to connect intake head with water supply pipes going through the plate. The outlet head goes through the case and pin connects one water-intake hose directly. The water pipes are with considerable flexibility. The ignition module is installed on one side of main heat valve;

a control valve installed under the main heat valve, which consists of one gas valve, one control switch and one water plate. The gas inlet of gas valve is connected with a gas can. Two pipes are installed on the water plate, which are pin connected with the input terminal and output terminal of the heat exchange module. These two pipes are with considerable flexibility.

Due to the fittings mentioned above, this water heater is designed in smaller size and convenient to be brought outdoors. With low flow capacity the temperature of hot water output can be adjusted for direct use of human body without mixing cold water. It meets the function of quick installation with water supply pipes. It is therefore an economic water heater.

2. The water heater defined in claim 1, wherein said inlet head and outlet head of the water heater can be installed in any suitable place on the side of the water heater.

3. The water heater defined in claim 1, wherein said intake head in the heat exchange module is constructed on the basis of Venturi meter theory. There is a pressure drop of flowing water between the outlet head and the input and output terminals, so as to control the gas valve and the ignition module of main heat valve. Especially when the water pressure is low, it can adjust inner flow to increase pressure drop of the input and output terminals.

4. The water heater defined in claim 1, wherein said suspension components on one side of the water heater, so as to suspend the water heater in a proper place.

5. The water heater defined in claim 1, wherein said gas inlet of the gas valve and gas can are provided with a connector at the connecting point.

6. The water heater defined in claim 1, wherein said the gas inlet of the gas valve can be firstly installed with a rotational pipe, and then pin connected with the connector and gas can, so as to connect the gas can with the water heater in any suitable place on the side of the water heater.